

ABSTRACT

ANALGESIC ACTIVITY TEST OF N-HEXANE EXTRACT OF *Marsilea crenata* Presl. IN WRITHING METHOD ON MICE

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The objective of this study was to evaluate the analgesic activity of n-hexane extract of *Marsilea crenata* Presl. The analgesic effect was examined by acetic-acid-induced writhing response. Before intraperitoneally injection of acetic acid 0,6%, drugs were orally administered to Balb/C mice. This animal were divided into 5 groups, positive control (Ibuprofen 1,04 mg/20 g BW mice), negative control (10% tween 80), dose 1 (0,27 mg/20 g BW mice), dose 2 (0,54 mg/20 g BW mice), and dose 3 (0,81/20 g BW mice).

The number of writhings exhibited by each animal was counted for thirty minute beginning five minute after acetic acid induction. Obtained data were analyzed by one-way ANOVA followed by LSD test with confident level 0,05. Dose 1, dose 2, and dose 3 showed significant different compare to negative control ($p < 0,05$). Dose 1 (0,27 mg/20 g BW mice) almost equal to positive control ($p > 0,05$). This study indicates that n-hexane extract of *Marsilea crenata* has analgesic effect. The obtained results provide information for the potential use in the treatment of pain.

Keywords: Analgesic activity; N-heksana extract; Writhing method